

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, I.M.

Experience in servicing the agricultural aviation. Meteor. i gidrol.  
no.7:47-48 Jl '57. (MLRA 10:8)  
(Meteorology in aeronautics)

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CIA-RDP86-00513R001653820009-7"

On the Age of the Fossilless Strata of the Lower Paleozoic SOV/20-124-2-44/71  
in the Dnestr Region

are followed by strata of green chlorite schists; the cycle is concluded by iron-bearing violet-brown loamy or dark green, almost black schists. On the basis of this phenomenon the author divides the whole mass of the "thumb" (not containing any fossil organic residues) Paleozoic into three stages or suites which are further subdivided into 7 subsuites (cycles) and 19 horizons (including 3 erosions) (Table 1, Column 9). The age of the entire series was determined to be Ordovician (Ref 13) on the basis of the horizons of the Molodovskiye sandstones which were paleontologically characterized and other findings. Moreover, spores from the group of Trachitriletes and Leiotriletes, as well as shells of Laminarites antiquissimus Eichw. were found in the green schists which are stratified below the Atakskiye sandstones. Due to this fact the sandstones of Kosoutsy could be classified as belonging to the Ripheus and the higher stratified masses up to the Molodovskyie sandstones to the Lower Cambrian. Due to this fact the Middle and Upper Cambrian and a considerable part of the Ordovician could be separated out of the cross section of the Dnestr region (Ref 4). A few years ago

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On the Age of the Fossilless Strata of the Lower Paleozoic SOV/20-124-2-44/71  
in the Dnestr Region

N. N. Slutskiy found prints in the Atakdye sandstones which the author preliminarily determined as Dictyonema sp. (Fig 1). This determination was confirmed by A. M. Obut who also pointed out to the distribution of the Dictyonema from the Upper Cambrian to the Lower Carboniferous Visean. According to that, the age of the sandstones mentioned and consequently, of the entire mass is determined to not older than the Upper Cambrian or even younger. It may be concluded from this that in the area of the classic cross sections of the Lower Paleozoic on the Dnestr River a red eluvial crust was formed after the eruption of the riphaic diabase during the entire Cambrian. The beginning transgression of the Ordovician Sea in the Tremadoc formed the sediments of the Lyadavskaya suite. The productive, phosphorite bearing Kalyusskaya suite was deposited during the Arenig period when the transgression attained its maximum. Due to a smaller impulse water intruded in the Caradoc which formed the complex of the Studenitskaya suite. Its sand component - the Molodovskiy horizon - overlain by Silurian characterized paleon-

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On the Age of the Fossilless Strata of the Lower Paleozoic SOV/20-124-2-44/71  
in the Dnestr Region

tologically, can be still found in the Northern Bessarabiya.  
There are 1 figure, 1 table, and 13 references, 12 of which  
are Soviet.

ASSOCIATION: Moldavskiy filial Akademii nauk SSSR (Moldavian Branch,  
Academy of Sciences, USSR)

PRESENTED: May 12, 1958, by A. G. Betekhtin, Academician

SUBMITTED: January 20, 1958

Card 4/4

S/519/60/000/008/009/031  
D051/D113

AUTHOR: Sukhov, I.M.

TITLE: The earthquake of November 10, 1940 in Moldavia and adjacent areas and problems of seismic zoning in the south-western part of the USSR

SOURCE: : Akademiya nauk SSSR. Sovet po seismologii. Byulleten', no. 8, Moscow, 1960. Voprosy seismicheskogo rayonirovaniya, 93-98

TEXT: The author describes the tectonic basis of the earthquake of November 10, 1940 in Moldavia and adjacent areas and the work of the special commission of the AN SSSR (AS USSR). This commission, led by V.O. Tsshokher and others was charged with the investigation of the effects of this earthquake. Suggestions towards improving the Bessarabian section of the map of seismic zoning of the USSR are given. In late 1957, the author visited Rumania to study the geological structure of the Western Carpathians, particularly the Vrancea Mountains, the center of deep-focused earthquakes. It was established that the Vrancea Mountains area is characterized by sunken crystalline

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S/519/60/000/C08/C09/031  
D051/D113

The earthquake of November 10, 1940...

rocks, a great deal of flysch, and accumulated neogenic sediments. The author considers that, in view of increased knowledge of the geological structure of the subcarpathian zone, east of the Vrancea Mountains, the effects of the 1940 earthquake, can be better explained. The work of the commission of the AS USSR, accomplished mainly in Kishinev, also included local studies of a number of localities in the Moldavskaya SSR. Data supplied by the commission, served as a basis for the maps of seismic zoning of the USSR of 1948 and 1957. The author criticizes seismic zoning as presented on these maps, stating, for example, that Kishinev should belong to point 8 rather than to point 7 of the seismic intensity scale. On a special map the author shows his own system of zonation as compared with the official system. There are 3 figures and 7 Soviet-bloc references.

ASSOCIATION: Moldavskiy filial AN SSSR (Moldavian Branch of the AS USSR)

Card 2/2

S/169/62/000/010/026/071  
D228/D307

AUTHOR: Sukhov, I.M.

TITLE: Earthquake investigations in Moldavia and its adjoining districts

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 10, 1962, 30,  
abstract 10.192 (Tr. Resp. nauchno-tekhn. konferen-  
sii po vopr. antisey nich. str-va, 1960, Kishinev,  
1960, 16-26)

TEXT: The territory of the Moldavian SSR can be regarded as one of the USSR's seismic zones, since it sometimes experiences the catastrophic earthquakes of the Carpathian region. All available information about earthquakes in the Carpathian region from 455 B.C. to 1960 that also embraced Moldavia was gathered by the seismic station of the Moldavskiy filial AN SSSR (Moldavian Branch, AS USSR) at Kishinev. More complete information is available from 1800. The strongest earthquakes occurred in 1802, 1829, 1838, 1912 and 1940. The catastrophic earthquake of 1802, with its epicenter

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SUKHOV, I. M.

Some characteristics of the seismotectonics of the Carpathian  
region. Studii astron seismol 6 no.2:187-199 '61.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

SUKHOV, I.S., inzh.

New squeezing mechanism for the hot tinning machine. Stal' 20 no.9:  
833-834 S '60. (MIRA 13:9)

1. Nauchno-issledovatel'skiy i konstruktorskiy institut khimicheskogo  
mashinostroyeniya.  
(Tin plating--Equipment and supplies)

FOKIN, Nikolay Vasil'yevich; SUKHOV, I.V., inzh., red.; TELYASHOV,  
R.Kh., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Automatic machine for the straightening and cutting of  
wire] Avtomat dlja rikhtovki i rubki provoloki. Leningrad,  
1963. 14 p. (Leningradskii dom nauchno-tehnicheskoi pro-  
pagandy. Obmen peredovym opyтом. Seriia: Mekhanicheskaja  
obrabotka metallov, no.7) (MIRA 16:5)

(Wire industry—Equipment and supplies)  
(Machinery, Automatic)

MUTSLNEK, Karl Yanovich, kand. tekhn. nauk; RAZENTAL', Emanuel' Zamulovich, inzh.; SUKHOV, I.V., red.; TELYASHOV, R.Kh., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Use of magnetic methods in assembly work] Primenenie magnitnykh metodov pri sborke izdelii. Leningrad, 1963. 16 p.  
(Leningradskiy dom nauchno-tehnicheskoi propagandy. Obmen peredovym opyтом. Seriya: Mekhanicheskaya obrabotka metallov, no.11) (MIRA 16:11)  
(Magnetic fields--Industrial applications) (Metalwork)

BASIEKOV, Aleksandr Mikhaylovich; KULOV, Aleksey Ivanovich;  
SUKHOV, I.V., red.; TELYASHOV, K.Kh., red.izd-va; GVIRTS, V.I.,  
tekhn. red.

[Lifting-capacity limiter for jib cranes. Self-gripping  
catch for sheet materials] Ugranichitel' gruzopod'emnosti  
dlia strelovykh pod'emnykh kranov. Samozazhimnoi zakhvat dlia  
listovogo materiala. Leningrad, 1963. 17 p. (Leningradskii  
dom nauchno-tehnicheskoi propagandy. Obmen peredovym opyтом  
Serija: Mekhanicheskaya obrabotka metallov, no.12)

(MIRA 16:10)

(Cranes, derricks, etc.--Safety appliances)  
(Materials handling--Equipment and supplies)

PERTEN, Yuriy Aleksandrovich, kand. tekhn. nauk; SUKHOV, I.V.,  
red.; GRIGOR'YEVA, I.S., red.izd-va; BELOGUROVA, I.A.,  
tekhn. red.

[New trends in the development of the mechanization of  
industrial conveying systems] Novye napravleniya v raz-  
vitiu sredstv mekhanizatsii promyshlennogo konveiernogo  
transporta. Leningrad, 1963. 24 p. (Leningradskii dom  
nauchno-tehnicheskoi propagandy. Obmen peredovym opy-  
tom. Seriia: Mekhanicheskaia obrabotka, no.5)

(MIRA 16:5)

(Conveying machinery)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

PERTEN, Yuriy Aleksandrovich; SUKHOV, I.V., red.; TELYASHOV, R.Kh.,  
red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Advanced methods for removing, conveying and processing  
metal chips] Progressivnye sposoby uborki, transportirovki  
i pererabotki metallicheskoi struzhki; stenogramma. Lenin-  
grad, 1963. 35 p.  
(Metal cutting)

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CIA-RDP86-00513R001653820009-7"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, K. (Moskva)

Single-channel superheterodyne receiver. Radio no.6:36-37 Je '56.  
(MILRA 9:8)

(Television--Receivers and reception )

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CIA-RDP86-00513R001653820009-7"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, K., inzh.

With a speed of 2,000 km.per hour. Av.i kosm. 45 no.7:73-78  
'62. (MIRA 15:8)  
(Aeronautics, Military)

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CIA-RDP86-00513R001653820009-7"

Sukhov, I. S.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr. 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Sukhov, I.S.	"Navigation" (textbook)	Ministry of Maritime Affairs

SO: W-30604, 7 July 1954

BURNOV, N. I.

20170 BURNOV, N. I. Peredovoy org po otkormu svinyey (Sovetskoy "Ostankino". Kosk obsh.) Sov. zootehnika, 1976, No. 3, S. 53-62.

SO: Letopis, No. 32, 1976.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, K. S.

SUKHOV, K. S. "Contribution to the Physico-chemical Characterization of the Filtrable Viruses of Mosaic," in Virous Diseases of Plants in Crimea and in the Ukraine, State Publishing House of Crimea AS-R, Simferopol, 1934, pp. 31-38. 464.32  
R09V

So: SIRA SI-00-52, 15 Dec. 1953

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

SUKHOV, K.S.

SUKHOV, K. S., and LANSHINA, M. M. "Pathological Changes in Plant Cells Caused by the Action of Potassium Iodide (In Connection with the Problem of the Nature of X-Bodies)," in Virus Diseases of Plants in Crimea and in the Ukraine, State Publishing House of Crimea ASSR., Simferopol, 1954, pp. 122-124. 464.32 R90V

So: SIRA SI-90-53, 15 Dec. 1953

SUKHCV, K. S.

"The structure of the quiescent kernel in the tissues of embrionic Avena Sativa."  
(p. 111) Section of Genetics, KHARKOV Scientific Research, Institute of Botany. by  
Sukhov, K. S.

SO: Biological Journal (Biologicheskii Zhurnal) Vol. VI, 1937, No. 1

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, K. S.

SUKHOV, K. S., and VOVK, A. M. "Mosaic Disease of Cattle," Comptes Rendus (Doklady)  
de l'Academie des Sciences de l'URSS, vol. 10, no. 3, 1928, pp. 207-210.  
511 Ph44

so: SIRA SI-90-52, 15 Dec. 1953

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, K. S.

SUKHOV, K. S., and VOVK, A. M. "Mosaic of Cultivated Cereals and How It is Communicated in Nature," Comptes Rendus (Doklady) de l'Academie des Sciences de l'URSS, vol. 20, no. 9, 1938, pp. 745-748.

So: SIRA SI-20-52, 15 Dec. 1953

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

*Clay*

*11/12*

Virus of tobacco mosaic tested for its power of fermentative activity. V. L. Ryshkov and K. S. Slobodcikoff. *Compt rend. acad. sci. U. R. S. S.* 21, 265-8 (1948) (in English). Test on the virus of tobacco mosaic showed no effect characteristic of oxidase, peroxidase, catalase, protease, asparaginase, urease, amylase, chlorophyllase or phosphatase even under conditions most conducive to their activity. A. H. Krapp.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, K. S.

SUKHOV, K. S., and VOVK, A. M. "The Injuriousness of 'Zakiklivanie' of Cats and the Mode of Its Dissemination in Nature," Izvestiia Akademii Nauk SSSR, Seriya Biologicheskaya, no. 1, 1939, pp. 121-124. 511 Sa2B

So: SIRA SI-90-52, 15 Dec. 1953

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, K. S.

Petliuk, P. T. [Co-author] See: Sukhov, K. S. "Delphax striatella Fallen as a Vector of the Virus Disease 'Zahuklivanie' in Grains," 1950.

Ref: A.M. - 31-90-11, 19 Dec 1950

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

R.J.M.

Секунов (К. С.) & Ворк (А. М.). Закукливание культивируемых злаков и пути его распространения в природе. [Zakuklivanie (pseudo rosette) of cereal crops and its dissemination in nature.] - 47 pp., 22 figs., Leningrad, Publishing Department U.S.S.R. Academy of Sciences, 1940. 1 rouble, 75 kopeks.  
[Received 1947.]

This is a full account of the authors' studies on the 'zakuklivanie' [pupation] disease of oats [R.I.M., xx, p. 155], most of which has already been reported in this *Review*. Experiments showed that among oat species, *Avena sativa* is the most susceptible to the disease (58 per cent. infection) and *A. strigosa* the least (9.2 per cent.). A list of 34 susceptible oat varieties and species is appended.

CA

11D

Intracellular protein inclusions in cereals affected with the mosaic disease "zakuklivanie." K. S. Sukhov. *Mikrobiologiya* (U. S. S. R.) 9, 188-195 (in English, 1961) (1940); cf. Ryzhkov, C. A. 34, 288\*.—The disease occurring in certain regions of Siberia affects most cereal grasses. The inclusions in the hairs of awns of barley are most suited for study. They contain looped semi-liquid threads, appearing during the first day of the disease, which later crystallize into needles. These proteinic inclusions are tentatively identified as the virus. *Drosophila melanogaster*, when bred on diseased cereals, accumulates the crystals in its intestines. When transferred to healthy plants, the crystals disappear in 7-8 days. *Deltapupillidius stratus*, *Cicadula exornata* and aphids do not contain the crystals after feeding on diseased plants. Feeding of the juice of diseased parts did not infect the insects. Inoculation of the juice with a needle gave a pos. result in one expt. T. Laanev.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SURKOV, K. S.

SURKOV, K. S. "Zakonizanie (Povt.) of Central Committee," Soviet Main Investigative,  
no. 11-12, 1940, pp. 30-33. 61.9 Ser5

See: SIRA SI-00-53, 15 Dec. 1953

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

SYKHOV [SYKHOFF] (K. N.) & SYKHOVA [SYKHOVA] (Mira M. N.)  
**Interrelations between the virus of a new grain mosaic disease  
(zakooklivnaya) and its carrier Delphax strateella Fellen.** - C.R.  
Acad. Sci. U.R.S.S., N.S., xxvi, 5, pp. 479-482, 1941.

In continued studies on the "zakooklivnaya" [pupation disease] R.A.M., xviii, p. 696; xix, p. 330] at Omsk [West Siberia in 1939, the authors found a non-infective generation of *Delphax [Delphacidae] stratella*, the vector of this virus disease [loc. cit.] on healthy oats grown in isolation. The oat plants remained healthy in spite of the large numbers of these "sterile" insects, thus showing that the pupation disease is not due to a toxic effect produced by the insect. The infectivity of the pupation disease was proved when larvae of some of these insects were placed on diseased oats and after varying periods transferred to healthy plants, with the result that from 75 to 70 (average 32.2) per cent. of the larvae were found to have become infected.

The incubation period in the insect varied widely, averaging from 12 to 16 days, but it was never less than six. Owing to the length of the incubation period, the larvae in their various instars showed a different rate of infection, which was practically nil in the first, but increased with each subsequent instar and reached its maximum in the imago. The rate of infection, however, never exceeded 37 per cent. either under laboratory or field conditions. The larvae were most liable to become infected in their early (first and second) instars, while in the fifth

instar or the imago stage the insects were practically immune. This may furnish an explanation of the fact that in oat fields completely infected by the disease, the number of infective insects diminishes gradually, dropping from 30 to 4-7 per cent. by the end of June. But even in their earlier instars the larvae did not easily become infected; none showed traces of infection after one hour's feeding on diseased oats and only an insignificant percentage after six hours, the highest percentage being reached after two to three days. On the other hand, the infection is easily transmitted by infected insects to healthy plants, in some cases in five or ten minutes. The virus does not multiply in the insects, and in time they lose their infective capacity. That the virus is not transmitted to the next generation was proved by an experiment in which the eggs of ten infected females were transferred to healthy oat plants, more than a hundred larvae being obtained from them; none of these larvae carried the infection.

The ratio of infected insects varied with different fields and different crops in direct proportion to the amount of infection in given field and crop. Thus, in a field of early oats infected to the extent of 100 per cent., the ratio was between 30 and 37 per cent.; on late oats infected to the extent of 29 per cent. it was 8-5 per cent.; while it was only 4 per cent. on rye, which is generally far less susceptible to infection. When 108 larvae, collected from dry oat stubble on a fallow land devoid of any vegetation just as they were emerging from their winter anabiosis, were transferred to healthy oats growing in incubation, to indicate that the virus overwinters largely in the body of the insect. Later on, another possibility of overwintering was found in the perennial grasses, such as *Agropyron repens* and *Bromus inermis*, which were, however, infected only to the extent of less than 0-01 per cent. and therefore could not constitute a significant mode of overwintering. The virus was furthermore discovered in the annual weeds *Sonchus oleraceus* and *Panicum [Echinochloa] crus-galli*, the former representing a serious source of infection because very susceptible to the disease and very attractive to the vector. In experiments with rice, 15 per cent. of the material was successfully infected, while attempts to infect soy-bean failed. The penetration of the virus into the tissues of the oat plant was found to proceed at a rate of 7 cm. per hour.

SUKHOV [SOUKHOV] (K. S.) & PETLYUK (P. T.). *Delphax striatella*  
Fallen as vector of the virus disease 'zakooklivnje' in grains.—  
*C.R. Acad. Sci. U.R.S.S., N.S.*, xxvi, 5, pp. 483-486, 1940.

Investigations into the life habits of the vector of 'zakooklivnje' (pupation disease; see preceding abstract), *Delphax* [*Delphacodes*] *striatella*, showed that the larvae of this insect overwinter on weeds and grasses in field boundaries and meadows adjoining oat and other cereal fields harvested the preceding year. More larvae were found near the boundaries of the fields than further away from them, and as far as could be ascertained, the insects followed the direction of the wind. An oat field protected by a gauze fence 2 m. high escaped infection and no insects were found in it; unprotected oat fields, on the other hand, were infected to an extent of 17 per cent. It is suggested that live hedges may provide

SUKHOV [SOUKHOFF] (K. S.). On the virus proteins in cereals. - *C. R. Acad. Sci. U.R.S.S.*, N.8., xxix, 2, pp. 137-138, 1 fig., 1940.  
Winter wheat growing near Moscow was found to be affected by a

form of mosaic, the external symptoms of which resembled those of the winter wheat mosaic recently reported from Voronezh [*R.A.M.*, xx, p. 396]. Some of the outward symptoms distinguished it from 'zakoklivanie' disease of oats (*ibid.*, xx, p. 166), from which it differed sharply in the absence of protein inclusions from the cells of affected plants. Sections of wheat leaves affected with mosaic, however, when placed in an acid medium, developed numerous needle-shaped crystals up to over 10  $\mu$  in length. Microchemical reactions indicated the protein nature of the crystals and their identity with the virus of winter wheat mosaic. The view that the wheat mosaic found near Moscow is probably identical with that reported from Voronezh was supported by the fact that crystals identical with those found in the Moscow wheat were observed in the intestines of *Deltocephalus strigosus* (*ibid.*, xix, p. 268), the vector of the Voronezh mosaic.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, V. S.

SUKHOV, V. S. "Zaklivanie (Pupation) of Cereals and Its Vector Delphax  
punctella Fallen," in Virus Diseases of Plants and Measures for Their Control,  
Works of the Conference on Virus Diseases 1946, Publishing House of the Academy  
of Science USSR, Moscow, 1941, pp. 68-81. b64.32 So8

Sc: SIRA SI-60-7, 15 Dec. 1953

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, V. S.

SUKHOV, V. S. Plant Viruses and Insect Carriers, Publishing House of the  
Academy of Science USSR, Moscow, 1942, 37 pp. 423 Sub

Sn: SIRA SI-30-53, 15 Dec. 1953

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, K. S.

"Peculiarities of Two Viruses Affecting Cereals and Their Carriers", Mikrobiologiya,  
Vol. 11, No. 4, 1942.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

REF ID: A653820009-7

11 -

CD

Purified protein prep. of winter wheat mosaic virus.  
K. S. Sakhov: *Compt. rend. acad. sci. U. R. S. S.* 39, 73-  
5 (1943).—The virus of this mosaic disease is not trans-  
mittable directly from plant to plant, but only through an  
insect vector, *Deltophalus striatus* L., in which it under-  
goes an incubation period before becoming infective. The  
virus could not be seen in infected cells until the pH of the  
latter was reduced to 4, when numerous needle-like crys-  
tals formed. The needles also formed when the juice  
from infected plants was acidified to pH 4. No crystals  
were found in healthy plants or in their juices. Similar  
crystals were found in the intestines of the insect at pH 4.  
In the wheat leaf, the crystals were found only in the  
parenchyma surrounding the vascular bundles. A quantity  
of the crystals was prepd. by filtering the leaf juice through  
an asbestos disk, making the pH = 4 and centrifuging.  
The material gave a test for protein. "Zakuklivane,"  
a yellow virus disease of oats, also required incubation for  
6 to 24 days in another insect, *Delphax striatella* Fall.,  
before becoming infective. Crystals of this virus formed in  
extd. juice at natural pH, but not at 4. S. believes that  
this is the first recorded case of finding a virus protein in  
the body of the carrier insect. J. J. Willaman

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

MURKOV, N. P.

"Proof of Infectiveness of a Purified Protein Preparation of Cow Mosnic Virus (Encephalomyelitis)," Comptes Rendus De L'Academie Des Sciences De L'URSS,  
vol. 40, no. 4, 1943, pp. 167-169. 511 P444

SO: SIRA - SI - 90-53, 15 Dec. 1953

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

CA

11D

Purified protein preparation from the virus of oat mosaic (Zakuklivonie). K. S. Sukhov, A. M. Vovk and T. S. Alekseeva. Doklady Akad. Nauk S. S. R. 41, 358 (1943); Compt. rend. acad. sci. U. R. S. S. 41, 341 (1943); cf. C. A. 38, 1709. — Protein crystals were obtained from oat leaves infected by oat mosaic by boiling the leaves in 0.1% NaHCO<sub>3</sub>, filtering and adding 1 N HCl. An unpigmented prep. was obtained by using white awns of an affected barley which had been deprived of chlorophyll. The crystals were primarily needle like in form, aggregated in some cases, and the form changed on prolonged standing. Denaturation of the virus protein occurred at 50° for 20 min. or 60° for 10 min.

E. K. Sleator

## AIR-SEA METALLURGICAL LIFE TIME CLASSIFICATION

EXON STYLING

STANDARD

AUTOMATIC INDEX

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11D

Influence of substances affecting enzymic action on the necrotic reaction produced by Nicotiana virus I. V. I. Ryzhkov and K. S. Sukhov. Biokhimiya 9, 1-1 (1944).

-NaF and CH<sub>3</sub>COOH inhibit certain enzymic reactions but are without effect in arresting the accumulation of ~~peperomia~~ mosaic virus. It follows that these enzymic reactions do not participate in the synthesis of the virus nucleic acid. Substances which do inhibit the accumulation of the mosaic virus are cysteine, ascorbic acid and vitamin B<sub>1</sub>. H. Priestley

**"APPROVED FOR RELEASE: 07/13/2001**

**CIA-RDP86-00513R001653820009-7**

SUKHOV, K. S.

"Virus Diseases of Plants in Kirghiz," Mikrobiologiya, vol. 13, no. 5, 1944,  
pp. 256-260. 44Z.3 M582

SC: CIRA - SI - 90-53, 15 Dec. 1963

**APPROVED FOR RELEASE: 07/13/2001**

**CIA-RDP86-00513R001653820009-7"**

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, K. S.

"Haliivry Secretion of the Aphis Myzus percicae Sulz. and Its Ability to Form a  
Filtering Apparatus," Zooptera Rendus (Doklady) de l'Academie des Sciences de l'URSS  
vol. 42, no. 5, 1944, pp. 226-228. 511 F444

SO: SIRA - SI - 90-53, 15 Dec. 1953

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

SUKHOV (K. S.). On certain conditions of formation of intracellular virus inclusions.—*C.R. Acad. Sci. U.R.S.S.*, N.S., xlv, 4, pp. 169-172, 4 figs., 1944.

The author reviews recent work on intracellular virus inclusions and briefly indicates the results of his own work on the viruses of tobacco mosaic, winter wheat mosaic, and oats pseudo-rosette [*R.A.M.*, xxiii, p. 257; xxiv, p. 167].

S.C.L.

of Planting

On the identity of yellow of kok-saghyz and  
yellow of aster and its possible relation to big bud  
in tomato. K. D. Stukov and A. M. Vaynshteyn.  
Rend. Akad. Sci. U.S.S.R., 1945, 48, 303 & 311;  
Abs., 1946, 16, 114. Yellow of kok-saghyz causes  
serious damage in certain parts of Russia and  
is transmitted by *Macrostelus quadrifasciatus*. The  
authors assume that the virus is identical with  
aster yellow, *Callistephus virus 1*, and possibly  
also with the causal agent of big bud of tomato,  
*Tomopeltatum virus 5*.

122-A

1946

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, K. S.

"Transmission of the Mosaic Virus of Tobacco Through Larvae of *Plusia gamma* L.,"  
Comptes Rendus (Doklady) de l'Academie des Sciences de l'URSS, vol. 49, no. 2,  
1945, pp. 146-147. 511 P444

SO: SIRA - SI - 90-53, 15 Dec. 1953

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

R.A.M.

Секунов (К. С.) & Ворк (А. М.). Столбур пасленовых и меры борьбы с ним.  
[Woodiness of Solanaceae and the means of combating it.]—All-Union Scientific Research Institute of the Canning Industry, 32 pp., 10 figs., Moscow, 1946.

In 1945 the virus disease causing woodiness in tomatoes [R.A.M., xiii, p. 133; xiv, p. 130] reduced greatly the yields of tomatoes, potatoes, chilli pepper, and eggplant in the U.S.S.R. The disease was reported from the Moscow area, South Ukraine, Moldavia, Caucasus, the Krasnodar district, Crimea, the Rostov area, also from Central Asia - South Kazakhstan, Kirghiz, and Uzbekistan. In the Krasnodar district 30 per cent. of the chilli and eggplants withered and died as a result of infection and also 70 per cent. of the early potatoes and 52 per cent. of the summer varieties. In the Crimea eggplants and chillis suffered 50 to 70 per cent. loss, early potatoes 10 to 70 per cent., and tomatoes 40 to 60 per cent. The withering was attributed to woodiness virus [tomato big bud virus; *ibid.*, xxvi, p. 135].

In the course of experiments in 1945 the authors found that the potato yellows disease, the symptoms of which were identical with those of the potato disease due to aster yellow virus in the United States [*ibid.*, xxvi, p. 411] was also due to the woodiness virus. In the Moscow area, where yellows was widespread, cuttings from a diseased potato plant were grafted on to ten healthy tomato plants. After 18 to 20 days leaf chlorosis and all other symptoms of woodiness developed.

over

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOB, K. S.

"Virus Proteins and the Phenomena of Inheritance (Their Role in the Transmission of Disease)," Agrobiologija, no. 4, 1946, pp. 84-96. 20 Ag222

SO: SIRA - SI - 90-53, 15 Dec. 1953

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

SUKHOV, K. S.

"Starch of Potatoes," Doklady Vsesoiuznoi Akademii Sel'skokhoziaistvennykh Nauk imeni V. I. Lenina, vol 11, no. 1-2, 1946, pp. 24-39. 20 Akl.

SC: SIRA - SI - 90-53, 15, Dec. 1953

SUKHOV, K. V.

"Means of Distribution of Stolbur Virus in Nature," in Reports of the Scientific--Research Work for 1946, Department of Biological Science, Publishing House of the Academy of Science USSR, Moscow, 1947, pp. 152-153. 511 Ak144

SO: SIRA - SI - 91-53, 15 Dec. 1953

SURKOV, K. S.

"The Nature of Mass Wiltine in the South of Potatoes, Peppers and Eggplant," in  
Reports of the Scientific-Research Work for 1945, Department of Biological Science,  
Publishing House of the Academy of Science USSR, Moscow, 1947, pp. 153-154. 511 Ak144

SO: SIRA - SI - 90-63, 15 Dec. 1953

SUKHOV, K. S.

Jul/Aug 1947

USSR/Medicine - Viruses  
Medicine - Plants

"Relationship of the Reproduction of the Tobacco Mosaic Virus to the Stage of Development of the Plant-Host," K. S. Sukhov, A. M. Vork, 14 pp

"Agrobiologiya" No 4

This article, well illustrated by diagrams and tables of experimental results, was submitted to the Institute of Genetics of the Academy of Sciences of the USSR. The albumin virus' reproduction is dependent on the condition of the plant-host. The stage of development of the plant-host effects the reproduction of the virus. The location and topography of 23773

USSR/Medicine - Viruses (Contd) Jul/Aug 1947  
Medicine - Plants

the area surrounding the plant-host have great effect upon the development of the virus. All changes in the process of reproduction are closely related to the course of synthesis or the course of hydrolysis.

23773

SUKHOV, K. S.

"New Data on Stolbni of Potatoes," Sovetskain Agronomia, vol. 5, no. 4, 1947, pp.  
72-75. 20 So84

SO: SIRA - SI - 90-53, 15 Dec. 1953

SUKHOV, K. S., and VOVK, A. N.

Mbr., Laboratory of Virus Diseases of Plants, Institute of Microbiology, Acad. Sci., -1946-.

Mbr., Genetics Inst., Acad. Sci. -1947-.

"Eylesthes Obsoletus Sign., Transmitting Agent of Big Bud (Stolbur) Virus in Solanaceae," Dok. AN, 53, No. 2, 1946

"The Dependence of the Reproduction of the Tobacco Mosaic Virus on the Synthetic Activity of the Protease of the Host Plant," Dok. AN, 57, No. 6, 1947

"New Virus Disease of the Tomato, the Curling of Its Leaves, and the Carrier, Agallia Venosa Fall.," Dok. AN, 56, No. 4, 1947

SURVEY R. C.

49150

USSR/Medicine - Viruses  
Medicine - Plants - Diseases

Oct 1947

"Stolbur Virus, Cause for Mass Wasting of Peppers,  
Eggplants, and Potatoes in the South," K. S. Sukhov,  
A. M. Vovk, Inst Genetics, Acad Sci USSR, 2½ pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LVIII, No 2

Discusses some of the characteristics, properties,  
and carriers of this rather widespread cause of  
withering of subject plants, as well as some meas-  
ures for combating this virus disease. Submitted by  
Academician N. A. Maksimov, 12 Jun 1947.

49150

SUKHOV, K. S.

"On the origin of viruses (O Prioskhozhdenii virusov), published by the All-Union Society for the Dissemination of Political and Scientific Knowledge, 1948.

SUKHOV, K. S.

RA 21171

USSR/Medicine - Plant, Parasites  
Medicine - Tobacco

Jan/Feb 1948

"Substrata from Which the Tobacco Mosaic Virus Grows during Autoreproduction," K. S. Sukhov, Dr Biol Sci, Genetics Inst, Acad Sci USSR, 2 pp

"Agrobiologiya" No 1

New data permits better account of the reproductive system of the virus nucleoprotein which is the generator of tobacco mosaic. Explains dual character of the substrata. Data clarifies the fact that chemical composition of the virus is dependent on the functional condition of the plant-host.

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51T61

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, K. S.

"Withering of Potatoes in the South (Stolbun)," Sad i Ogranod, no. 2, 1945, pp. 63-66.  
80 Sal3

SO: SIRA - SI - 90-53, 15 Dec. 1953

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, K. S.

"New Method for the Control of Big Bud in Solanaceae," Sad i Ogorod, no. 3, 1948,  
pp. 57-58. 90 Sal3

SO: SIRA - SI - 90-53, 15 Dec. 1953

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

SUMI, T., S.

SUMI, T., K.S. "Virus of Cancerous New Growths in Plants," Niroda, vol. 37, no. 8, 1948,  
p. 46-62. 410 P44.

SO: Siria Si-90-53 15 Dec. 1953

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUHOV, K. S.

"Effect of Length of Day on the Reproduction of Tobacco Mosaic Virus in the Tissues of a Tobacco Hybrid," Doklady Akademii Nauk SSSR, vol. 59, Feb. 21, 1948, pp. 1205-1207. 511 F444A

SO: SIRA - SI - 90-53, 15 Dec. 1953

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

SUMKOV, K. V.

PA 11/49T53

USSR/Medicine - Plants, Diseases  
Medicine - Tomatoes

Jul 48

"Mechanism of Relative Sensitivity of Stem-Type  
Tomato Plants to Plant Virus Disease," K. S.  
Sukhor, A. M. Vorv, Inst of Genetics, Acad Sci  
USSR, 4 pp

\*Dok Ak Nauk SSSR Vol LXI, No 2

Reports experiments. Tabulates results. Probable  
that phloem sap of stem tomato plants is more  
closely akin to parenchyma sap, regarding pH  
value, than is the case with nonstem tomatoes.  
This reacts adversely on the *Galeastes cicada*,

11/49T53

USSR/Medicine - Plants, Diseases (Contd) Jul 48

hence the stem plant is relatively immune to virus  
disease. Submitted 3 May 48.

11/49T53

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SURKOV, V. S.

SURKOV, V. S. "Virus Diseases," in Sel'skokhoziaistvennaya Entsiklopediya, State Publishers of Agricultural Literature, Moscow, 1949, Ed. 3, vol. 1, pp. 328-329. 30.1 Sel'khozgiz Ed. 3

SO: Sirs Si-90-53 15 Dec. 1963

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, K. S.

SUKHOV, K. S. "Problem of Potato Degeneration," Trudy Instituta Genetiki, no. 16, 1949,  
pp. 161-178. 442.9 F44

SC: Sira ~1-90-53 15 Dec. 1953

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, K.S.

D.I. Ivanovskii - founder of the science of filtrable virus. Izv.Akad.  
nauk SSSR Ser.biol.,Moskva No.6:3-21 Nov-Dec 50. (CIML 20:4)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKOV, L. S.

SUKOV, L. S., and VOVK, A. M. "Relation of Hereditary Reaction of Nicotiana Species to Tobacco Mosaic Virus and to Temperature," Trudy Instituta Genetiki, no. 17, 1950, pp. 232-235. 442.9 P44.

SO: Sire Si-90-53 15 Dec. 1953

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

SUKHOV, K. S.

SUKHOV, K.S., and VOVK, A.M. "Differences Between Northern and Southern Big Bud of Potatoes," Tudy Instituta Genetiki, no. 17, 1950 pp.236-238. 442.9 P44

SO: Sire Si-90-53 15 Dec. 1953

DUNHOV, K. S. and MIKIFOMVA, G. S.

"Physiological Conditions Stimulating Reproduction of the Tobacco Mosaic Virus in Plant Cells", Trudy Inst Genetiki, Ak Nauk SSSR, No. 18, pp 237-246, 1950.

UKHOV, K. S. and MTKIFROVA, G. S.

"Physiological conditions which stimulate the reproduction of tobacco Mosaic Viruses in plant cells," Trudy Inst Genetiki, AN SSSR, Vol. p 258, 1950.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, K. S.

SUKHOV, K. S., and NIKIFOROVA, G. S. "Reproduction of Tobacco Mosaic Virus and Synthetic Activity of Proteases in Leaves of Hybrid Tobacco," Trudy Instituta Genetiki, no. 17, 1950, pp. 239-242. 442,9 P44

SO: Sira Si-90-53 15 Dec. 1953

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

SURKOV, A. S., and NIKIFOROVA, G. S.

"Physiological Conditions Stimulating Reproduction of the Tobacco Mosaic Virus in Plant Cells," Trudy Inst Genetiki, Ak Nauk SSSR, 1950, No 18

Mikrobiologiya, Vol. XX, No. 5, 1951.  
00-W-24635.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, K. S., and VOVK, A. M.

"Variability in the Tobacco Mosaic Virus Upon Passage Through the Organism of Plants of Various Species," Trudy Inst Genetiki Ak Nauk SSSR, 1950, No 18

Mikrobiologiya, Vol. XX, No. 5, 1951. ~~W-M-24635~~.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

SUKHOV, K. S.

USSR (600)

Viruses

Science of viruses; Priroda no. 2, 1952

9. Monthly List of Russian Accessions, Library of Congress, May 1952. Unclassified.

OTROSPL. Vol. 5 No. 1 Jan. 1952

Nashov, K.S., D.I. Ivanovski -- founder of the study of filtrable viruses, 1-21 ..

Izvestiya Akademii Nauk, S.S.R., Seriya Biologicheskaya No. 6

SUKHOV, K.

"Problems of today's virology." (p.9). BIOLOGICKY SBORNIK. (Slovenska akademia vied a umeni) Bratislava. Vol. 7, No. 1/2, 1952.

SO: East European Accessions List, Vol 3, No 8, Aug 1954.

SUKHOV, K. S.; VOVK, A. M. ; KUSHNIKOVA, K. S.

Tomatoes - Diseases and Pests

Effective test for DDT dust in controlling the tomato stalk borer. Dokl. Ak. sel'khoz.  
17 no. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

USSR/Biology - Genetics  
Medicine - Viruses

Jun 52

"Concerning the Conditions of the Reproduction  
of Virus Nucleoproteids in Plant Cells," K. S.  
Sulhov

"Trudy Inst Genetiki" No 19, pp 222-239

In connection with a review of the subject which  
is based principally on work by US and Japanese  
investigators (22 refs), outlines research in this  
field done by USSR investigators (16 refs).

Mentions (1) work by O. I. Shvetsova (1950),  
who proved that the polyhedric disease  
affects certain insects only when they re-  
ceive a definite diet; (2) work by himself showing  
that nitrogen starvation impedes the propagation of  
the virus in infected plants; (3) that the propaga-  
tion of viruses is stimulated by reducing the length  
of exposure of plants to daylight; (4) that viruses  
do not exhibit any enzyme activity; (5) work by V. I.  
Tsvanitskii showing that influenza virus can be re-  
versibly inactivated by globin, papain, cytochrome C,  
clupeine. On the basis of some of the morphological  
data cited, assumes that stages or phases of the de-  
velopment of virus nucleoproteids may exist. States  
that further research ought to be done (1) to clarify  
the genetic connection between virus nucleoproteids  
and protoplasm nucleoproteids and (2) to verify hy-  
potheses in regard to genetic connection between  
viruses and bacteria, the spontaneous formation of  
viruses, and related phenomena.

(3)

244T7

Sukarov, N. S.,

SUKROV, N. S., and VOLK, A. V. "Regeneration of Morphology of Tuber Sprouts in the Progeny of Potato Plants Affected with Big Bud," Trudy Instituta Genetiki, no. 19, 1952, pl. 240-247. 442.9 P44.

SO: SIRA SI-90-53 15 Dec. 1953

SUKHOV, K. S. and KOSIKOV, K. V.

"Recent USSR Work on the Ontogenesis, Modification, and Selection of Microorganisms," Mikrobiologiya, 21, No.6, pp 754-760, 1952

Translation W-25892, 21 Apr 53

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SIMOV, K. S.

"Problems in the Study of Viruses," Priroda, vol. 41, no. 2, 1952, pp. 18-25.  
410 F933

So: Sira - Si-90-53, 15 Dec. 1953

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

SUKNOV, K. S.

Virus Diseases of Plants

New research in virus diseases of plants in Czechoslovakia. Priroda 41 no. 5, 1952

Monthly List of Russian Accessions, Library of Congress, August 1952. UNCLASSIFIED.

SUKHOV, K.S.

Virus of tobacco chlorosis. Doklady Akad. nauk SSSR 85 no. 6:1381-  
1382 21 Aug 1952. (CLML 23:3)

1. Presented by Academician A. I. Oparin 24 June 1952. 2. Institute of Genetics, Academy of Sciences USSR,

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, K.S.

Species formation in viruses. Izv. Akad. nauk SSSR; Ser. biol. no.3:  
3-15 May-June 1953. (CLML 25:1)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

SUKHOV, K.S.; VOVK, A.M.

New form of "needle-shaped" strain of tobacco mosaic virus found  
under experimental conditions. Trudy Inst.gen. no.20:265-269 '53.  
(MLRA 7:1)  
(Mosaic disease)

SUKHOV, K.S.; RAZVYAZKINA, G.M.

Mottled top of makhorka, its causative agent and transmitter. Trudy  
Inst.gen. no.20:270-282 '53.  
(Chlorosis (Plante)) (Tobacco---Diseases and pests)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7

SUKHOV, K.S.

Nature of viruses. Mikrobiologiya, Moscow 22 no.3:316-324 May-June  
1953. (CDRL 25:5)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820009-7"

SUKHOV, K.S.;SOLOV'YEV, B.M.;NIKIFOROVA, G.S.

Effect of formaldehyde derivatives of norsulfazol on tobacco mosaic virus. Doklady Akad. nauk SSSR 88 no. 3:559-560 21 Jan 1953.

(CIML 24:1)

1. Presented by Academician A. I. Oparin 20 November 1952.

SUKHOV, K.S.; NIKIFOROVA, G.S.

The size of particles of tobacco mosaic virus in various periods of reproduction and under conditions of deprivation of the host-plant of nitrogen. Doklady Akad. Nauk S.S.R. 90, 469-71 '53. (MLRA 6:5) (CA 47 no.17:8839 '53)

Electron-microscopic investigation shows that the virus particles are unusually short at an early stage of infection (denoting rapid reproduction) as well as at a late stage of infection under conditions of nitrogen starvation of the host plant. In the first case, the titer of the virus (i.e., its capacity to infect) is below normal, while in the second case it is no lower than that of virus consisting of particles which have a normal length. Presented by Acad A. I. Oparin 23 Mar 53.

260T3

SUKHOV, K.S.; NIKIFOROVA, G.S.; OPARIN, A.I., akademik.

Spiral-like structure of particles of the tobacco-mosaic virus. Dokl.AN  
SSSR 90 no.4:671-672a Je '53. (MLRA 6:5)

1. Akademiya Nauk SSSR (for Oparin). 2. Institut genetiki Akademii nauk  
(for Sukhov, Nikiforova). (Mosaic disease)

SUKHOV, K.S.; NIKIFOROVA, G.S.; OPARIN, A.I., akademik.

Aggregation of the tobacco-mosaic virus in plant cells, during the early period of reproduction. Dokl.AN SSSR 90 5:901-903 Je '53. (MLRA 6:5)

1. Institut genetiki Akademii nauk SSSR (for Sukhov, Nikiforeva). 2. Akademiya nauk SSSR (for Oparin). (Mosaic disease)

KOSIKOV, K.V.; SUKHOV, K.S., doktor biologicheskikh nauk, otvetstvennyy  
redaktor; REDIN, Ye.I., redaktor; NEVRAYEVA, K.A., tekhnicheskiy  
redaktor

[Genetics of yeasts and methods of selection of yeast cultures]  
Genetika drozhzhei i metody selektsii drozhzhevykh kul'tur.  
Moskva, Izd-vo Akademii nauk SSSR, 1954. 326 p. (MIRA 7:10)  
(Yeast)

SUKHOV, K. S.  
USSR, Agriculture - Biology

FD 280

Card 1/1

Author : Sukhov, K. S.

Title : Virus diseases of agricultural plants and measures for their control.

Periodical : Izv. AN SSSR. Ser. Biol. 3, 49-61, May/Jun 1954

Abstract : Much experimental work has been done by the Soviet virologists in connection with the study of viruses and diseases they cause in plants. Theoretical discovery of D. I. Ivanovskiy made it possible to make an exact diagnosis of tobacco mosaic. Tobacco mosaic was one of the first virus diseases studied. Knowledges of other virus diseases is recent and some of them have not yet been diagnosed. Losses from wilt diseases, caused by viruses, can be reduced somewhat by crop rotation and avoidance of fields where such diseases have damaged previous crops. The greater losses resulting from virus disease are caused by the mosaics of winter wheat. Virus diseases of vegetable crops have been found mostly in southern areas of the USSR where most of diseases of potato viruses are transmitted by some sucking insects. Spraying plants with chemicals like DDT dusts is recommended in certain cases. Thirty two references, all USSR. Illustrations.

Institution : Institute of Genetics, Academy of Sciences USSR

Submitted : February 12, 1954

SUKHOV, Konstantin Stepanovich; RAZVYAZKINA, Galina Mikhaylovna; PEREDEL'-skiy, A.A., redaktor; GUBER, A., tekhnicheskiy redaktor.

[Biology of viruses and virus diseases of plants] Biologiya virusov i virusnye bolezni rastenii. Moskva, Gos. izd-vo "Sovetskaya nauka" 1955. 226 p. (MIRA 9:5)  
(Viruses) (Plant diseases)

SUKHOV, K.S., professor.

Variability of viruses in mixed infections. Izv.AN SSSR Ser.biol.  
no.5:80-88 S-0 '55. (MLRA 9:2)

1.Institut genetiki Akademii nauk SSSR.  
(VIRUSES)

SUKHOV, K.S.

Variability of viruses in the case of combination infections.  
Trudy Inst.gen.no.22:168-180 '55. (MIRA 9:4)  
(Virus diseases of plants)

62 Virus like particles in the juice of *Epiphyllum*, the cells of which contain crystalline proteins. K. S. Sukhov and G. S. Nikiforova. *Doklady Akad. Nauk S.S.R.* 103, 721(1955).—Examined under an electron microscope of the juice of *Epiphyllum* showed a frequent cell inclusion in the form of spindle-shaped particles. The shapes of these are reproduced. These are of dimensions of tobacco mosaic virus particles and like the latter these particles tend to aggregate at their ends, forming wavy aggregates. It is suggested that these inclusions are rodlike particles of virus nature.

G. M. Kosolapoff

(1)

SUKHOV, K.S.; NIKIFOROVA, G.S.

Crystalline inclusion of tobacco mosaic virus in the plastids  
of mosaic tobacco. Dekl.AN SSSR 104 ne.5:786-788 O '55.(MLRA 9:2)

1.Elektronnaya laboratoriya Otdeleniya biologicheskikh nauk Akademii  
nauk SSSR, Predstavlene akademikom A.I.Oparinym.  
(Mosaic disease) (Viruses)

SUKHOV, K.S.; KAPITSA, O.S.

Reproduction of the tobacco mosaic virus in the first hours  
following the inoculation of the leaves of Nicotiana glutini-  
nosa. Dokl.AN SSSR 105 no.6:1346-1349 D '55. (MIRA 9:4)

1. Institut genetiki Akademii nauk SSSR. Predstavlene akademikom A.I.Oparinym.

(Mosaic disease)

SUKHOV, Konstantin Stepanovich; OPARIN, A.I., akademik, otvetstvennyy  
redaktor; STRESHINSKIY, M.O., redaktor izdatel'stva; SHCHENKO,  
G.N., tekhnicheskij redaktor

[Viruses] Virusey. Moskva, Izd-vo Akademii nauk SSSR, 1956. 369 p.  
(VIRUSES)

(MLRA 10:1)

"The Problem of Variability of Phytopathogenic Viruses,"

The Problem of Hereditary Variation of Phytopathogenic Viruses,"  
papers given at the International Genetics Symposia, 6-12 Sept,  
1956, English Translation.

Ref: R-3069259, 26 Dec 1956

USSR/Virology - Plant Viruses.

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Abs Jour : Ref Zhur - Biol., No 8, 1958, 33536

Author : Sukhov, K.S., Kapitsa, O.S.

Inst :

Title : (Napravленная изменчивость X-virusa kartofelya при смешанной инфекции с вирусом табачной мозаики). A Directed Change of Potato X-Virus in Mixed Infections with Tobacco Mosaic Viruses.

Orig Pub : Izv. AN SSSR, Ser. biol. 1956, No 3, 53-64

Abstract : It was clarified that a change in viruses may occur in a mixed infection by unrelated viruses, which do not produce crossing serological reactions. In a joint cultivation of a cyphomandrate strain of tobacco mosaic virus with a potato X-virus ( $X_2$ ), a strain of potato virus formed ( $X_3$ ) which differed from the initial one, caused severe symptoms on tobacco, stramonium and

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